

CHAPTER

22

AUTO FLIGHT

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DOUGLAS AIRCRAFT CO., INC.
DC-8 SEVENTY SERIES
MAINTENANCE MANUAL

HIGHLIGHTS

TO: ALL HOLDERS OF DC-8 SEVENTY SERIES MAINTENANCE MANUAL

CONCERNING: REVISION 19, CHAPTER 22, DATED APR 1/88

22-CONT REVISED TO PROVIDE NEW GENERIC TABLE OF CONTENTS.

22-IDENT REVISED TO PROVIDE NEW GENERIC AIRPLANE IDENTIFICATION LIST.

22-30-4 M/P REVISED AIRPLANE EFFECTIVITY.

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A U T O . F L I G H T

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22-CONT		1	APR 1/88				
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22-30-4	50	201	MAR 1/83				
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*The asterisk indicates pages revised or added by the current revision.

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Numbers	Fuselage Numbers
DC8-71	45810	252
DC8-71	45811	262
DC8-71	45812	277
DC8-71	45813	284
DC8-71	45849	289
DC8-71	45891	305
DC8-71CF	45897	313
DC8-71CF	45898	320
DC8-71CF	45900	316
DC8-71CF	45902	294
DC8-71	45907	288
DC8-71	45913	325
DC8-71	45914	292
DC8-71	45915	295
DC8-73CF	45936	344
DC8-71CF	45938	331
DC8-71CF	45939	351
DC8-71	45941	317
DC8-71	45944	326
DC8-71	45945	337
DC8-71	45946	339
DC8-71	45947	341
DC8-71CF	45948	321
DC8-71CF	45949	329
DC8-71CF	45950	354
DC8-71CF	45952	338
DC8-71	45963	355
DC8-73CF	45966	393
DC8-73CF	45967	385
DC8-73CF	45968	389
DC8-71	45970	343
DC8-71	45971	356
DC8-71	45973	358
DC8-71	45974	368
DC8-71	45975	369
DC8-71	45976	372
DC8-71	45977	373
DC8-71	45978	381
DC8-71	45979	363

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	45983	350
DC8-73CF	45990	375
DC8-73CF	45991	380
DC8-71	45993	382
DC8-71	45994	387
DC8-71	45995	388
DC8-71	45996	397
DC8-71	45997	398
DC8-71	45998	399
DC8-73CF	46001	395
DC8-73CF	46002	394
DC8-73AF	46003	401
DC8-73AF	46004	403
DC8-73AF	46006	413
DC8-73AF	46007	422
DC8-73AF	46008	423
DC8-72CF	46013	427
DC8-71	46014	400
DC8-71	46018	420
DC8-73AF	46019	411
DC8-71	46029	425
DC8-71	46030	426
DC8-73	46033	431
DC8-71	46039	448
DC8-71	46040	449
DC8-72CF	46043	443
DC8-73AF	46044	432
DC8-73CF	46045	441
DC8-73CF	46046	444
DC8-73CF	46047	447
DC8-71	46048	450
DC8-73CF	46049	479
DC8-73CF	46051	440
DC8-73CF	46052	442
DC8-73	46053	446
DC8-71	46055	492
DC8-71	46056	495
DC8-73CF	46059	456
DC8-73CF	46062	486
DC8-73	46063	457

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	46064	459
DC8-71	46065	460
DC8-71	46066	462
DC8-72	46067	455
DC8-71	46072	477
DC8-73CF	46073	485
DC8-73AF	46074	468
DC8-73	46076	451
DC8-73AF	46080	466
DC8-72	46081	471
DC8-72	46082	458
DC8-72	46084	473
DC8-73CF	46086	478
DC8-73CF	46087	454
DC8-73CF	46089	501
DC8-73CF	46090	504
DC8-73CF	46091	519
DC8-73CF	46094	482
DC8-73	46095	497
DC8-71	46099	507
DC8-73	46100	502
DC8-73CF	46101	489
DC8-73CF	46103	483
DC8-73CF	46104	488
DC8-73CF	46106	490
DC8-73CF	46108	522
DC8-73CF	46109	493
DC8-73CF	46112	520
DC8-73CF	46117	525
DC8-73	46123	508
DC8-73	46124	511
DC8-73	46125	515
DC8-72CF	46130	542
DC8-73CF	46133	534
DC8-73CF	46135	531
DC8-73CF	46140	528
DC8-73CF	46149	538

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AUTO THROTTLE AUTHORITY SWITCHES - MAINTENANCE PRACTICES

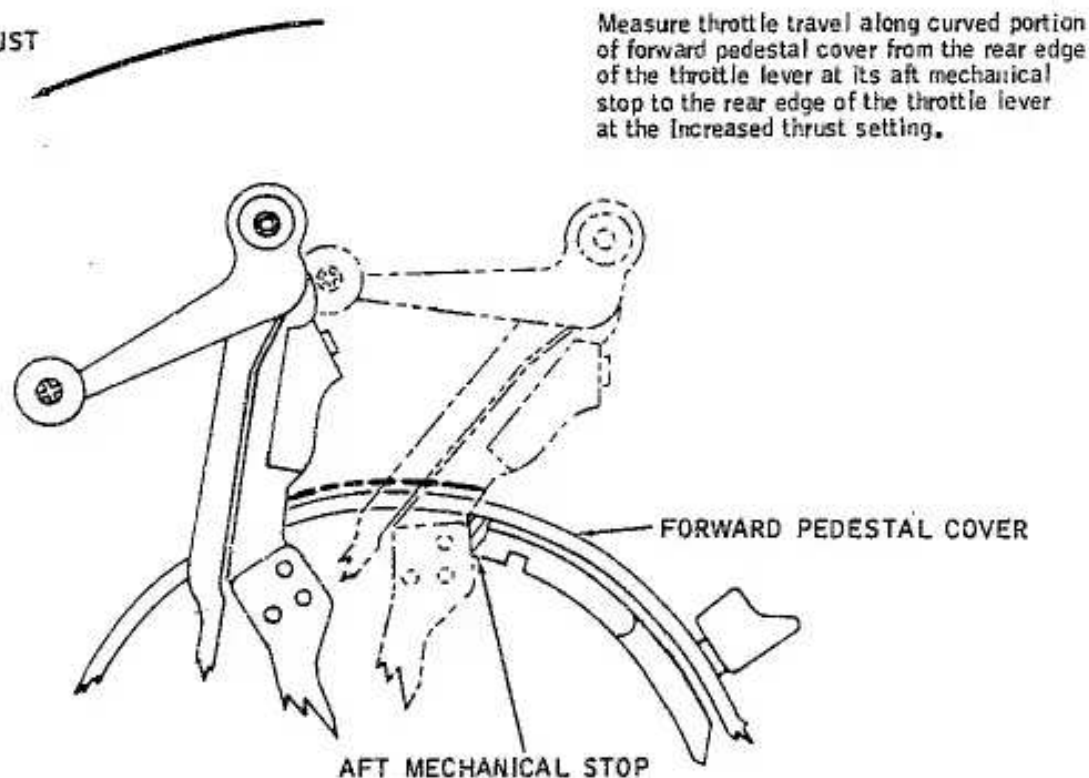
1. General

- A. The two auto throttle maximum authority switches are located in the pilot's control pedestal and are accessible through the pedestal side access panels. Each switch is actuated by a cam installed on the lower throttle assembly clevis arm of the corresponding inboard throttle. Adjustment procedures for each maximum authority switch are identical.
- B. The two minimum authority switches are installed on the thrust reverse gate control assembly located below the flight compartment floor at the forward and aft of the pilot's control pedestal. Each switch is actuated by movement of the corresponding outboard throttle lever. Adjustment procedures for each minimum authority switch are identical.

2. Tools and Equipment Required

- A. A ruler or measuring tape is required to measure throttle lever movement along the top curved surface of the pilot's control pedestal (see Figure 201).

INCREASE THRUST



HA2-2804

Measurement Guide -- Throttle Lever Travel
Figure 201

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3. Adjustment/Test Auto Throttle Authority Switches

A. Adjust Auto Throttle Maximum Authority Switches (see Figure 202).

- (1) Position inboard throttle lever corresponding to switch to be adjusted 3 11/32 inches forward of aft mechanical stop.
- (2) Loosen cam shaft retaining nut approximately 1 turn.
- (3) Locate cam that actuates maximum authority switch.

NOTE: Item number of switch is ink-stamped on the structure adjacent to each switch (see Wiring Diagram Manual).

- (4) Using slot screwdriver in cam slot, spread cam just enough to relieve tension of cam on shaft. Adjust cam to actuate switch as switch roller travels from low to high surface cam.

CAUTION: EXCESSIVE SPREADING OF SLOT CAN DAMAGE CAM.

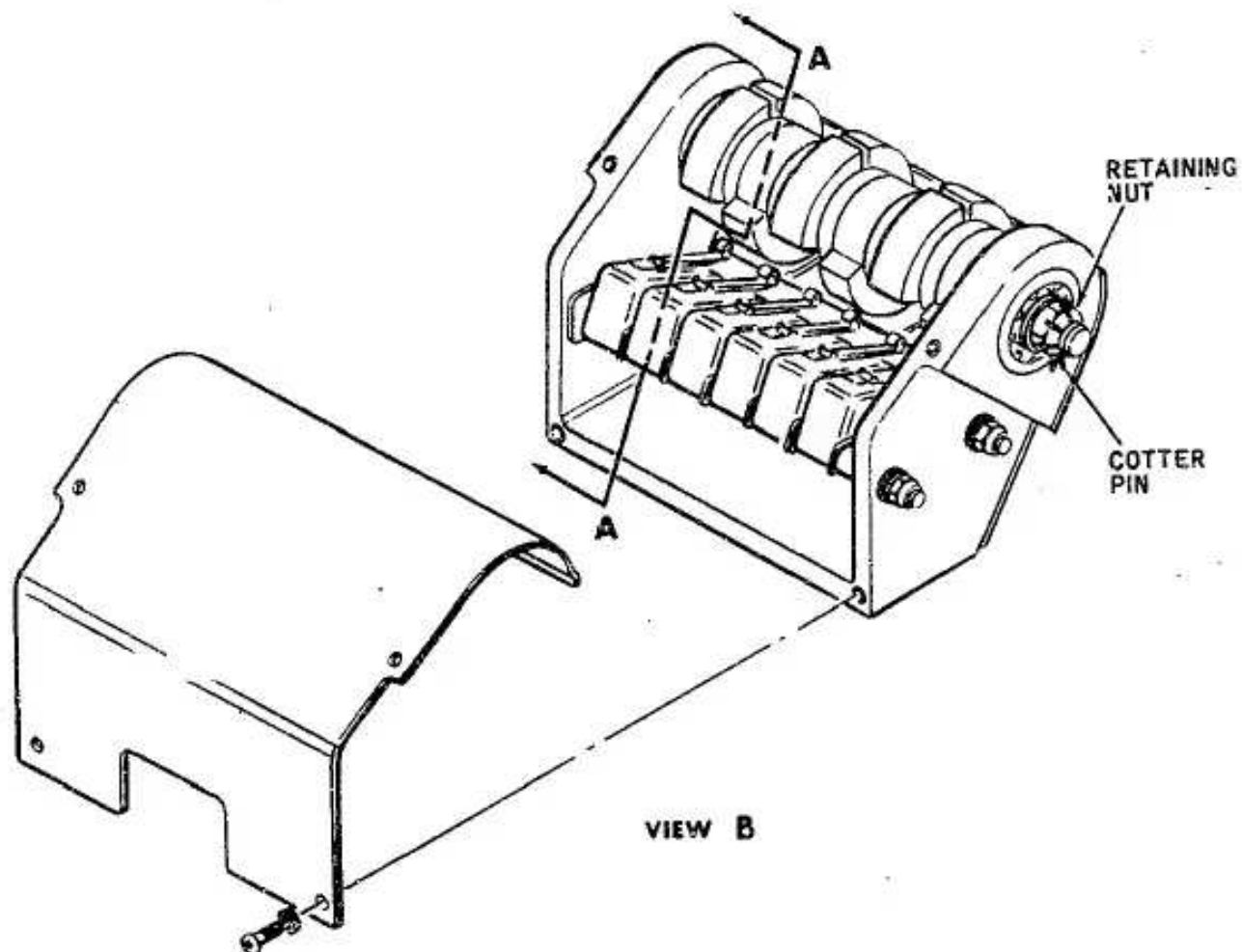
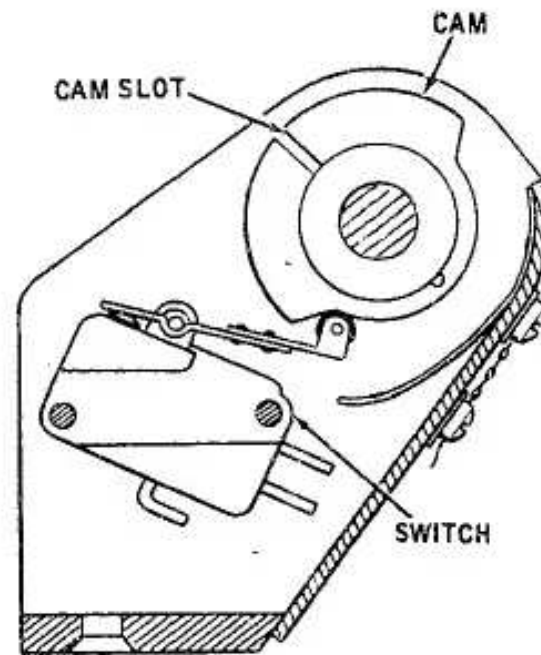
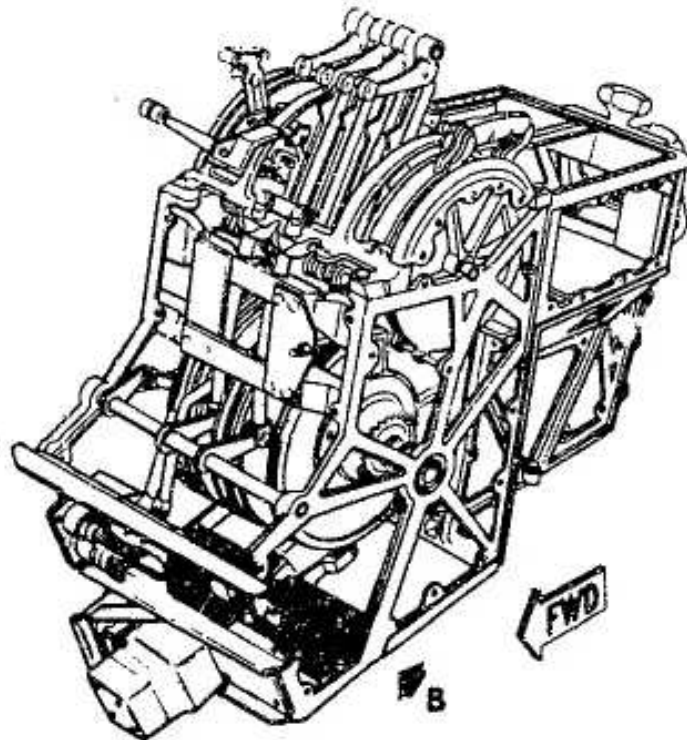
- (5) Tighten cam shaft retaining nut to torque of 60 (+10) inch-pounds. Install cotter pin.
- (6) Verify that maximum authority switch actuates as corresponding inboard throttle lever is moved from aft mechanical stop toward power on position. Switch should actuate when throttle lever is 3 11/32 (+1/16) inches from aft stop.

B. Adjust Auto Throttle Minimum Authority Switches (see Figure 203).

- (1) Position outboard throttle lever corresponding to switch to be adjusted 1 inch forward of aft mechanical stop.
- (2) Adjust cam to deactuate switch as switch roller travels from high portion of cam.
- (3) Verify that minimum authority switch deactuates as corresponding outboard throttle lever is moved from power on position toward aft mechanical stop. Switch should deactuate when throttle lever is 1 (+1/16) inch from aft stop.

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Maximum Authority Switch Adjustment
Figure 202

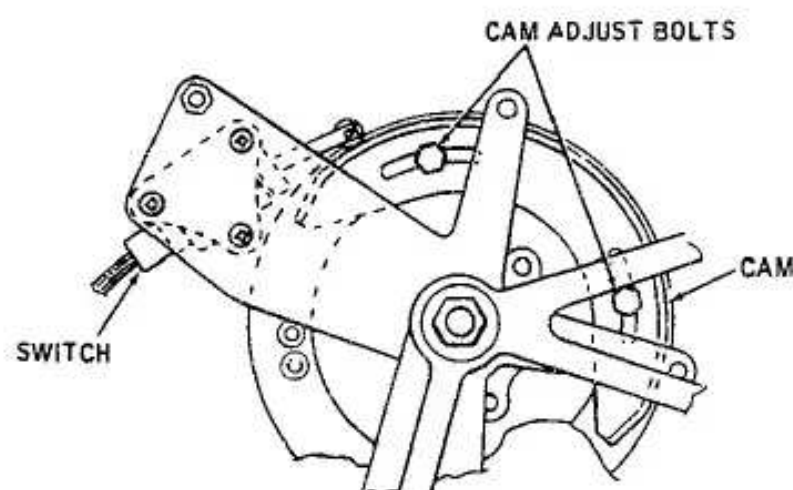
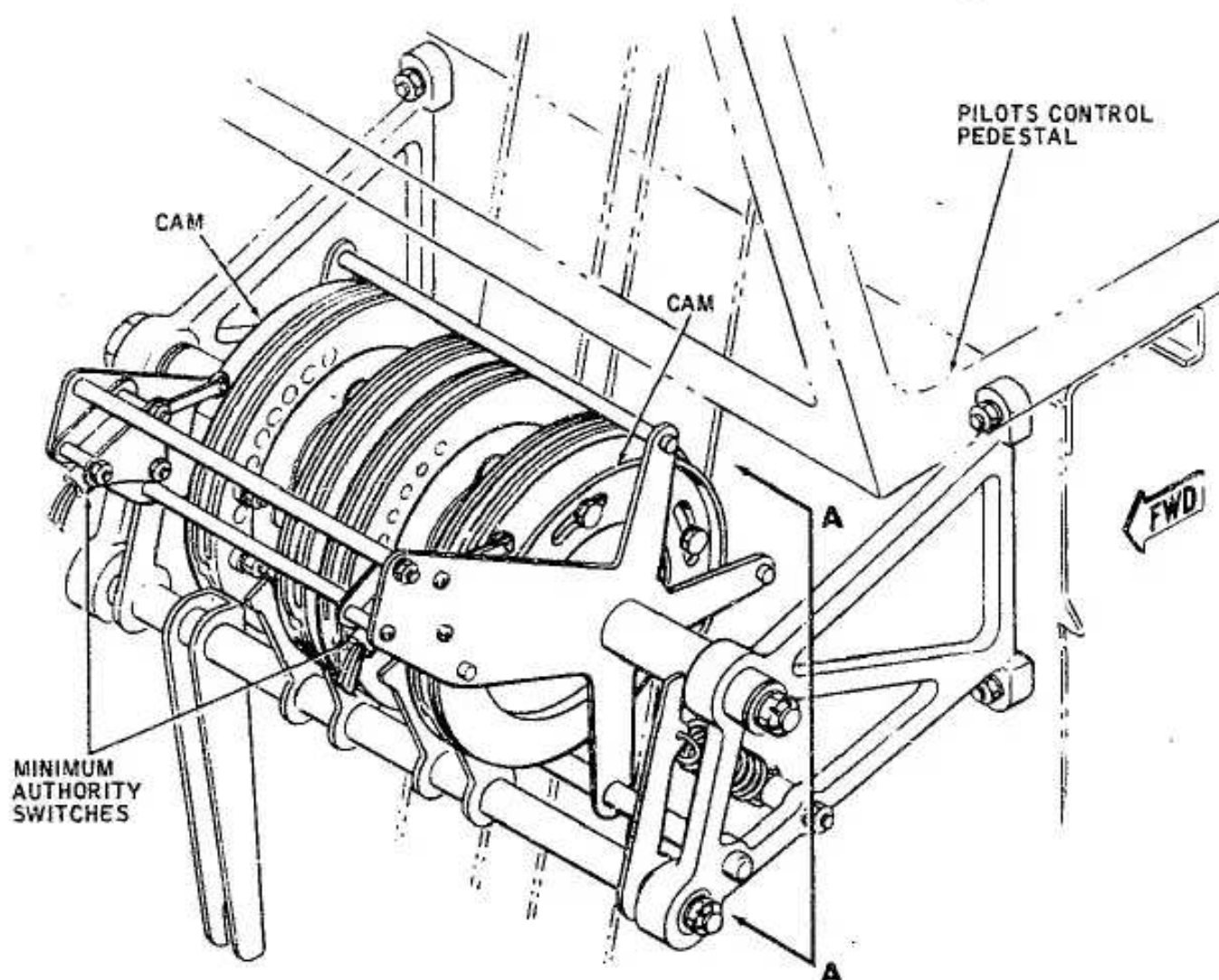
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SECTION A-A
LEFT SIDE SHOWN
RIGHT SIDE SIMILAR

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Minimum Authority Switch Adjustment
Figure 203